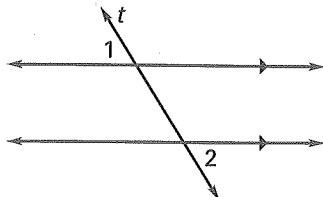


# Practice A

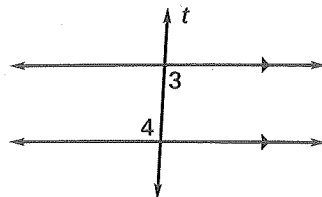
For use with pages 126–135

What postulate or theorem justifies the statement?

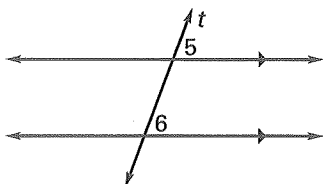
1.  $\angle 1 \cong \angle 2$



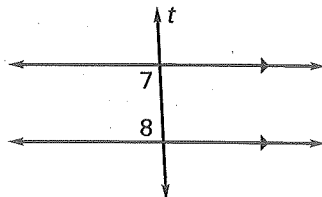
2.  $\angle 3 \cong \angle 4$



3.  $\angle 5 \cong \angle 6$

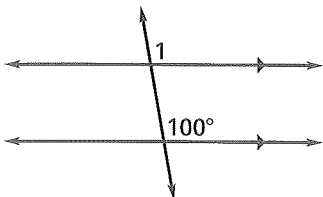


4.  $m\angle 7 + m\angle 8 = 180^\circ$

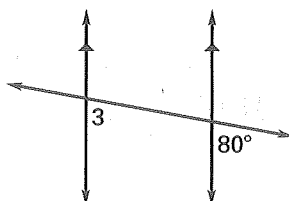


Find the measure of the numbered angle.

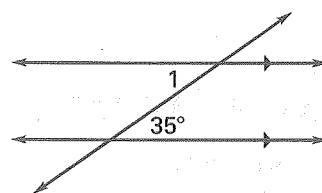
5.



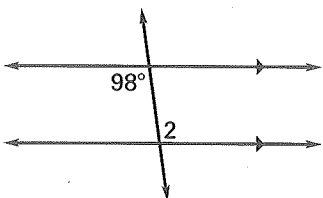
6.



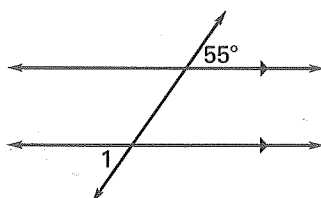
7.



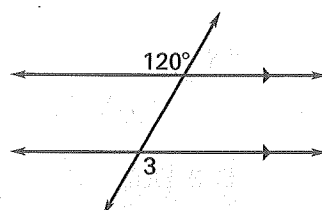
8.



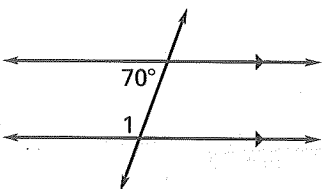
9.



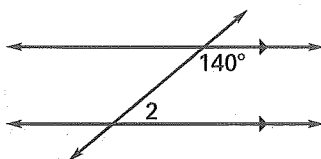
10.



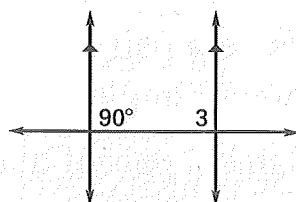
11.



12.

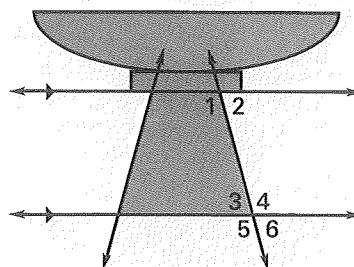


13.



A birdbath on a pedestal is shown in the sketch at the right. The top of the pedestal is parallel to its base.

14. Name a pair of congruent corresponding angles.
15. Name a pair of congruent alternate interior angles.
16. Name a pair of supplementary same-side interior angles.

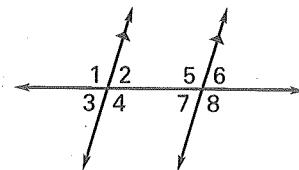


# Practice B

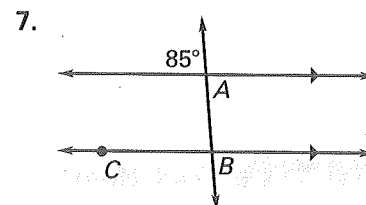
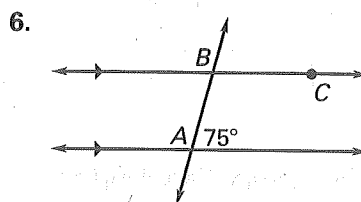
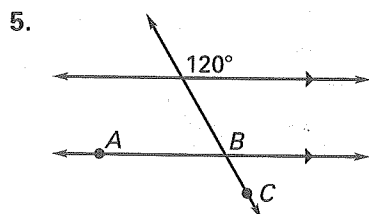
For use with pages 126–135

Use the diagram to determine whether the statement is *true* or *false*.

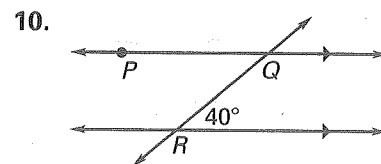
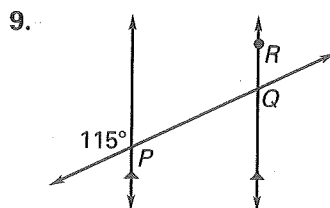
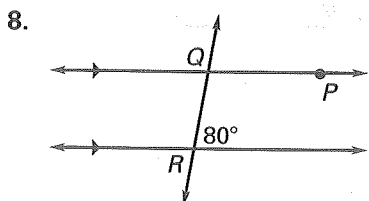
- $\angle 1 \cong \angle 6$  by the Same-Side Interior Angles Theorem.
- $\angle 2 \cong \angle 7$  by the Alternate Interior Angles Theorem.
- $\angle 3 \cong \angle 7$  by the Alternate Exterior Angles Theorem.
- $m\angle 2 + m\angle 5 = 180^\circ$  by the Same-Side Interior Angles Theorem.



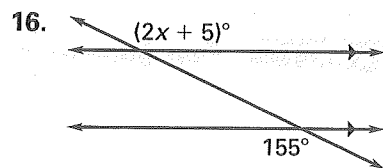
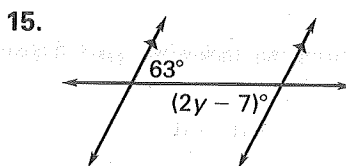
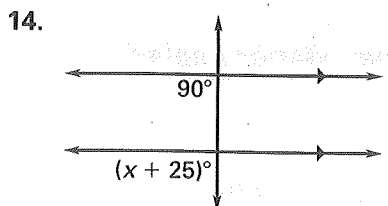
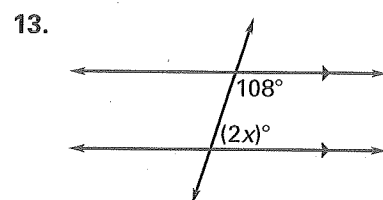
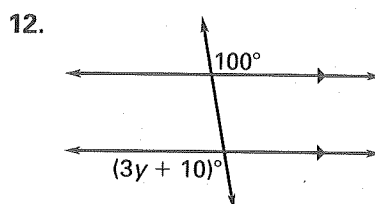
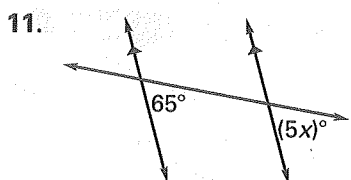
Find the measure of  $\angle ABC$ .



Find the measure of  $\angle PQR$ .



Find the value of the variable.



A planting box for flowers is shown in the sketch at the right. The top of the box is parallel to the base.

- If  $m\angle 5 = 108^\circ$ , find  $m\angle 4$ .
- If  $m\angle 11 = 68^\circ$ , find  $m\angle 7$ .
- If  $m\angle 1 = 109^\circ$ , find  $m\angle 3$ .
- If  $m\angle 10 = 73^\circ$ , find  $m\angle 7$ .
- If  $m\angle 1 + m\angle 2 = (5x - 10)^\circ$ , find the value of  $x$ .

